

Title (en)
Heat-storing apparatus.

Title (de)
Wärmespeicher.

Title (fr)
Accumulateur de chaleur.

Publication
EP 0074612 A1 19830323 (EN)

Application
EP 82108266 A 19820908

Priority
• JP 13191982 A 19820730
• JP 14230581 A 19810911

Abstract (en)
[origin: US4561493A] A heat-storing vessel filled with a heat-storing material of latent heat type is provided with a fluid flow passage in thermal contact with the heat-storing material for passing a fluid for storing and releasing heat. By passing a hot fluid through the fluid flow passage, the heat-storing material in the heat-storing vessel is melted to store heat. By passing a cold fluid through the fluid flow passage, the heat-storing material in the heat-storing vessel is solidified to release heat. The heat-storing material contains a gelling agent to suppress a phase separation phenomenon. A low temperature part is provided at a part of the heat-storing vessel and the heat-storing material containing the gelling agent is retained in a solid state at the low temperature part to prevent supercooling of the heat-storing material.

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F24J 3/00; C09K 5/06

IPC 8 full level
F28D 20/02 (2006.01)

CPC (source: EP US)
F28D 20/02 (2013.01 - EP US); **Y02E 60/14** (2013.01 - EP US)

Citation (search report)
• [A] DE 2749030 A1 19780518 - SECR DEFENCE BRIT
• [A] EP 0005362 A1 19791114 - UNIV AMERICAN TECH [US]
• [AP] EP 0041386 A1 19811209 - BRITISH PETROLEUM CO PLC [GB]

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EP1746376A3; CN104654863A; DE102011112600A1; US11560504B2; US9016358B2

Designated contracting state (EPC)
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